

Applicant: Hermann D. Funke
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IN THE CLAIMS:

Please cancel claims 1.-21. and 40.-41. without prejudice or disclaimer as to the subject matter thereof.

1.-21. (canceled)

22. (Original) A method for controlling an implantable medical device, the method comprising:

determining if a high frequency (HF) radiation interference signal proximate to the implantable medical device exceeds a preselected HF radiation threshold; and

adjusting a stimulation rate provided by the implantable medical device providing that the strength of the detected HF radiation interference signal exceeds the preselected HF radiation threshold.

23. (Original) The method of claim 22, wherein adjusting a stimulation rate provided by the implantable medical device further comprises:

adjusting a stimulation rate in which the implantable medical device stimulates a heart.

24. (currently amended) The method of claim 23, further comprising:

ascertaining a spontaneous or stimulated heart rate of the heart prior to determining that the high frequency (HF) radiation interference signal proximate to the implantable medical device exceeded a preselected HF radiation threshold ~~detecting the presence of the magnetic field; and~~

storing the spontaneous or stimulated heart rate in a memory.

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25. (Original) The method of claim 24, further comprising:
determining a predetermined incremental factor as a function of the stored
spontaneous or stimulated heart rate.

26. (Original) The method of claim 25, wherein determining a predetermined
incremental factor as a function of the stored spontaneous or stimulated heart
rate further comprises:

determining a predetermined incremental factor as a percentage of the
stored spontaneous or stimulated heart rate.

27. (Original) The method of claim 25, wherein adjusting a stimulation rate
provided by the implantable medical device further comprises:

adding the predetermined incremental factor to the stored spontaneous or
stimulated heart rate to produce an adjusted stimulation rate provided by the
implantable medical device.

28. (Original) The method of claim 27, further comprising:

maintaining stimulation of the heart at the adjusted stimulation rate until
the preselected HF radiation threshold is no longer exceeded.

29. (Original) An implantable medical device, comprising:

a detector for detecting the presence of a high frequency (HF) radiation
interference signal; and

a processor for adjusting a stimulation rate provided by the implantable
medical device in response to determining that the strength of the detected HF
radiation interference signal exceeds a preselected HF radiation threshold.

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30. (Original) The device of claim 29, wherein the processor is further adapted to adjust a stimulation rate in which the implantable medical device stimulates a heart.

31. (Original) The device of claim 30, wherein the processor is further adapted to ascertain a spontaneous or stimulated heart rate of the heart and store the spontaneous or stimulated heart rate in a memory.

32. (Original) The device of claim 31, wherein the processor is further adapted to determine a predetermined incremental factor as a function of the stored spontaneous or stimulated heart rate.

33. (Original) The device of claim 32, wherein the processor is further adapted to determine the predetermined incremental factor as a percentage of the stored spontaneous or stimulated heart rate.

34. (Original) The device of claim 32, wherein the processor is further adapted to add the predetermined incremental factor to the stored spontaneous or stimulated heart rate to produce the adjusted stimulation rate provided by the implantable medical device.

35. (Original) The device of claim 34, wherein the processor is further adapted to maintain stimulation of the heart at the adjusted stimulation rate until the preselected HF radiation threshold is no longer exceeded.

36. (Original) The device of claim 29, wherein the implantable medical device is a pacemaker.

37. (Original) The device of claim 29, wherein the HF radiation interference signal is produced by at least one of a radar and a high power radio transmitter.

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38. (Original) The device of claim 33, wherein the percentage of the stored spontaneous or stimulated heart rate comprises ten percent of the stored spontaneous or stimulated heart rate.

39. (Original) The device of claim 31, wherein the adjusted stimulation rate is a function of the spontaneous or stimulated heart rate.

40.-41. (canceled)

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